

**Dr. Khushhali M. Pandey**

Associate Professor and HoD

Maulana Azad National Institute of Technology (MANIT)

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**Academic Credentials**

- **Doctor of Philosophy in Microbiology**
- **Master of Science in Biotechnology**
- **Bachelor of Science in Biology**
- **Post Graduate Diploma in Yoga Education**
- **Certificate course in Graphology**

**Research Experience**

16+ years of experience in academics, research, and administration at MANIT.

**Research Interests**

Computational Biology (Multiomics, Drug Designing and Biomechanics).

**Research Projects in the last 5 years:**

| Sr. No. | Title of Projects                                                                                                                                                                                                                                                                                                                                              | Role | Funding agency                       | Duration  | Funded amount (Rs.) |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------------------------------------|-----------|---------------------|
| 1.      | Identification of Novel Protein Drug Targets and Biomarkers Utilizing Protein – Protein Interaction Network for Vitiligo                                                                                                                                                                                                                                       | PI   | MPCST                                | 24 months | 3.44 lakhs          |
| 2.      | Computational Approach to prioritize drug like molecules for chikungunya virus by exploring genomic information                                                                                                                                                                                                                                                | PI   | MPCBT                                | 24 months | 6.33 lakhs          |
| 3.      | Highway Pathway for rapid Identification of New Promising Molecular Entities using Molecular Geometries for Human Viruses                                                                                                                                                                                                                                      | PI   | MHRD                                 | 12 months | 47 lakhs            |
| 4.      | Post-Surgery Implant Monitoring and Diagnostic Scanner (PSIMD), which is a non-invasive, portable scanning device designed to monitor the health of orthopedic implants after surgery. The device can detect early-stage bacterial growth, micro-cracks, corrosion, and loosening of metallic plates without the patient needing to experience symptoms first. | PI   | IITI<br>DRISHTI<br>CPS<br>Foundation | 12 months | 15 lakhs            |

## Publications

1. Ranga, A., Malhotra, A. G., Singh, J., & Pandey, K. M. (2026). Genomic Sequencing from Sanger to Next-Generation Sequencing: Historical Context, Comparative Advances, and Prospects for Next-Generation Phenomics. *OMICS: A Journal of Integrative Biology*, 15578100261433762. doi.org/10.1177/15578100261433762.
2. Mukherjee, A., Mahapatra, A. D., Maity, A., Pandey, K. M., & Chakraborty, S. (2026). Design, synthesis, biological evaluation and molecular docking of new acid-functionalized carbazole derivatives as potential antibiotic agents. *Journal of Molecular Structure*, 146391. doi.org/10.1016/j.molstruc.2026.146391
3. Prabha, S., Warkare, S., & Pandey, K. M. (2026). Sustainable Synthesis and Characterization of AgNPs using Catharanthus roseus Stem with Antibacterial Evaluation against Pathogenic Staphylococcus aureus. *Journal of Pure & Applied Microbiology*, 20(2), 120. doi.org/10.22207/JPAM.20.2.06
4. Shrivastava, R., Sharma, K., Mishra, S., Parihar, P., Das, G., Pandey, K. M., ... & Pandey, M. K. (2026). Integrative machine learning approaches with genomic data for predicting antitubercular drug resistance: A systematic review and meta-analysis. *Journal of Global Antimicrobial Resistance*, 46, 148-157. doi.org/10.1016/j.jgar.2025.11.021.
5. Pandey KM. Comment on "Molecular genetic analysis of two novel ABO\*A alleles causing Ax phenotype in Chinese". *J Formos Med Assoc.* 2026 Jun 6:S0929-6646(26)00594-2. doi: 10.1016/j.jfma.2026.05.096. Epub ahead of print. PMID: 42250959.
6. Pandey, K.M. Comment on "Cardiac biomarkers in women with high-risk pregnancies: short-term outcomes from the Heidelberg Cardio-Obstetrics Registry". *Clin Res Cardiol* (2026). <https://doi.org/10.1007/s00392-026-02964-w>
7. Pandey KM. Comment on "Genetic testing for adult-onset neurodegenerative diseases: A clinical perspective". *J Formos Med Assoc.* 2026 Jun 5:S0929-6646(26)00599-1. doi: 10.1016/j.jfma.2026.05.101. Epub ahead of print. PMID: 42248750.
8. Pandey, K. M. (2026). Letter to the Editor: CASR, CLDN 14, ALPL & SLC34A1 genes are associated with the risk of nephrolithiasis in Egyptian children. *Journal of Pediatric Urology*, 106196. <https://doi.org/10.1016/j.jpuro.2026.106196>
9. Prabha, S., Chauhan, P., Warkare, S., & Pandey, K. M. (2025). A computational investigation of potential plant-based bioactive compounds against drug-resistant Staphylococcus aureus of multiple target proteins. *Journal of Biomolecular Structure and Dynamics*, 43(7), 3311-3329. doi.org/10.1080/07391102.2023.2297009
10. Prabha, S., Warkare, S., Ranga, A., & Pandey, K. M. (2024). Explore the Protein Targets of Cinnamomum Zeylanicum's Phytoconstituents Against Pathogenic Staphylococcus Aureus: Gc-Ms Profiling, Molecular Docking, Pharmacophore, and Pathway Reconstruction. *Molecular Docking, Pharmacophore, and Pathway Reconstruction*. doi.org/10.2139/ssrn.4989510.
11. Sharma, S., & Pandey, K. M. (2024). Computational bioprospecting of phytoconstituents as potential inhibitors for peptide deformylase from Streptococcus oralis: An opportunistic pathogen. *Archives of Biochemistry and Biophysics*, 758, 110079. doi.org/10.1016/j.abb.2024.110079.
12. Mukherjee, A., Pandey, K. M., Ojha, K. K., & Sahu, S. K. (2023). Identification of possible SARS-CoV-2 main protease inhibitors: in silico molecular docking and

- dynamic simulation studies. *Beni-Suef University Journal of Basic and Applied Sciences*, 12(1), 69. doi.org/10.1186/s43088-023-00406-4
13. Zeenat, L., Prajapati, S., Sangeet, S., Khan, A., & Pandey, K. M. (2023). In-silico screening of potential phytochemicals against extracellular adherence (EAP) protein of *Staphylococcus aureus* from Indian Medicinal Plants. *Research Journal of Pharmacy and Technology*, 16(10), 4691-4697. Doi.org/10.52711/0974-360X.2023.00762
  14. Chandra, G., Pandey, A., Prabha, S., & Pandey, K. M. (2022). Microstructure, Mechanical, In Vitro Biodegradation, and Antimicrobial Behavior of a Mg-Zn-Ca-Sr/ZrO<sub>2</sub> Composite Prepared Using Powder Metallurgy. *ACS Applied Bio Materials*, 5(11), 5148-5155. doi.org/10.1021/acsabm.2c00525.
  15. Raizada, R. (2021). Comparative Analysis of Codon Usage of Dengue and Chikungunya Viruses with Human Host and Vector. *Bioscience Biotechnology Research Communications*, 14(2), 746–752. doi.org/10.21786/bbrc/14.2.47
  16. Paul, N., Pandey, A., & Pandey, K. M. (2019). An understanding of diabetes mellitus associated complications, treatment modalities and management strategies. *Biosciences Biotechnology Research Asia*, 16(1), 195-209. doi.org/10.13005/bbra/2737
  17. Malhotra, A. G., Singh, S., Jha, M., & Pandey, K. M. (2018). A parametric targetability evaluation approach for vitiligo proteome extracted through integration of gene ontologies and protein interaction topologies. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, 16(6), 1830-1842. DOI: 10.1109/TCBB.2018.2835459
  18. Singh, S., Malhotra, A. G., Jha, M., & Pandey, K. M. (2018). Implications of protein conformations to modifying novel inhibitor Oseltamivir for 2009 H1N1 influenza A virus by simulation and docking studies: S. Singh et al. *VirusDisease*, 29(4), 461-467. doi.org/10.1007/s13337-018-0480-2
  19. Malhotra, A. G., Jha, M., Singh, S., & Pandey, K. M. (2018). Construction of a comprehensive protein–protein interaction map for vitiligo disease to identify key regulatory elements: A systemic approach. *Interdisciplinary Sciences: Computational Life Sciences*, 10(3), 500-514. DOI 10.1007/s12539-017-0213-z
  20. Mune, A., Pandey, A., & Pandey, K. M. (2017). Genome-wide comparative analysis of the codon usage pattern in Flaviviridae family. DOI: <http://dx.doi.org/10.21786/bbrc/10.4/11>
  21. Singh, S., Malhotra, A. G., Jha, M., & Pandey, K. M. (2017). Development of 3D QSAR based pharmacophore model for neuraminidase in Influenza A Virus. *Biosci Biotech Res Comm*, 10(1), 63-71.
  22. Malhotra, A. G., Singh, S., Jha, M., & Pandey, K. M. (2017). Edifice of vitiDB: A first ever structured portal for vitiligo protein repository and its assessment. *BIOSCIENCE BIOTECHNOLOGY RESEARCH COMMUNICATIONS*, 10(2), 13-18.
  23. Jha, M., Malhotra, A. G., Singh, S., & Pandey, K. M. (2016). Gene co-expression network analysis reveals common system-level properties of genes involved in tuberculosis across independent gene expression studies. *Network Modeling Analysis in Health Informatics and Bioinformatics*, 5(1), 24. DOI 10.1007/s13721-016-0131-8
  24. Singh, P., & Pandey, K. M. (2016). Structural modeling of human tyrosinase protein using computational methods. *Biotechnological Research*, 2(1), 15-24.
  25. Jha, M., Gupta, A., Singh, S., & Pandey, K. M. (2016). Differential co-expression network analysis for identification of functional modules in HIV infection and tuberculosis-HIV co-infection. *Journal of Biological Research*, 89(2). doi:10.4081/jbr.2016.5950
  26. Rounak, K., Menaria, K., Pandey, A., & Jain, D. (2014). Comparative homology modeling of human P-Glycoprotein. *Int J Biol Pharm Res*, 5(4), 354-363.

27. Singh, S., Malhotra, A. G., Pandey, A., & Pandey, K. M. (2013). Computational model for pathway reconstruction to unravel the evolutionary significance of melanin synthesis. *Bioinformation*, 9(2), 94.
28. Soni, A., Pandey, K. M., Ray, P., & Jayaram, B. (2013). Genomes to hits in Silico-a country path today, a highway tomorrow: A case study of Chikungunya. *Current Pharmaceutical Design*, 19(26), 4687-4700. doi.org/10.2174/13816128113199990379
29. BALAJI, P., MALHOTRA, A., & MENARIA, K. (2012). Flux balance analysis of melanogenesis pathway. *International Journal of Soft Computing and Engineering*, 2, 162-170. <https://api.semanticscholar.org/CorpusID:212513130>
30. Tenguria, R. K., & Menaria, K. (2009). Effect of IPNMS on post harvest agronomical parameters of soybean crop in Vertisol.
31. Menaria, K., & Tenguria, R. (2009). IPNM Practices to study Agronomical Characteristics of Vertisol Soil. *Research journal of biotechnology*, 4(1), 63-65.
32. Tenguria, R. K., & Menaria, K. (2008). Influence of sustainable agricultural practices on chemical properties of vertisol soil with Soybean-Wheat cropping sequence. *Current World Environment*, 3(1), 167.
33. Menaria, K., & Tenguria, R. K. (2008). Influence of sustainable agricultural practices on biological properties of vertisol soil with wheat crop in soybean-wheat cropping sequence. <http://www.microbiologyjournal.org>
34. Kushwaha, S., Sharma, N., Jha, M., & Menaria, K. (2008). Molecular Dynamics Assessment of Modelled IgG Binding Receptor Protein (1PGB). *The Internet Journal of Bioengineering*, 4(1).
35. Tenguria, R. K., & Menaria, K. (2006). CHEMICAL BIOLOGICAL COMPOSITION OF SOIL AND SUSTAINABLE YIELD OF SOYBEAN UNDER IPNM SYSTEM IN CENTRAL INDIA. *ORIENTAL JOURNAL OF CHEMISTRY*, 22(1), 173.
36. Tenguria, R. K., & Menaria, K. (2006). Influence of different integrated plant nutrient management treatments on chemical, biological composition of soil and sustainable yield of wheat in Central India.
37. Tenguria, R. K., & Menaria, K. (2006). The influence of wheat straw and bio-fertilizers on soil moisture, water infiltration & bulk density of soil under wheat cultivation.
38. Menaria, K., Purohit, S. D., Rajpu, R. P., & Tenguria, R. K. (2005). Effect of vitamins on growth and shoot multiplication of *Chlorophytum borivilianum*. *Biosci Biotechnol Res Asia*, 3(1), 141-144.

## Patents

1. Goyal, S., Pandey, A., & Pandey, K. M. (2026). *Driver Alertness Detection Device*. Indian Design Application No. 492143-001, Award Date: 23 February 2026. (Status: Awarded)
2. Pandey, K. M., & Pandey, A. (2024). *Human Body Microbial Detection Implant*. Indian Design Application No. 439441-001, Award Date: 04 December 2024. (Status: Awarded)
3. Pandey, K. M., & Pandey, A. (2024). *Post-Surgery Implant Monitoring Device*. Indian Design Application No. 423209-001, Award Date: 15 July 2024. (Status: Awarded)
4. Pandey, K. M., et al. (2023). *An Amphibious System to Monitor Water Pollution Using Algae Along with an Early Contamination Warning*. Indian Patent Application No. 202321014785 A, Award Date: 09 June 2023. (Status: Published)
5. Pandey, K. M., et al. (2023). *Efficient and Sustainable Smart Aquaponic System with Nanotechnology and Automated Control*. Indian Patent Application No. 202321028888 A, Award Date: 09 June 2023. (Status: Published)

6. Pandey, K. M., et al. (2023). *Smart Portable Vein Image Visualization and Reconstruction System with Predictive Analysis for Blockage Detection*. Indian Patent Application No. 202321028890 A, Award Date: 23 June 2023. (Status: Published)

### Book Chapters

1. Prajapati, S., Zeenat, L., Sangeet, S., Khan, A., & Pandey, K. M. (2025). The quest for novel drugs against COVID-19: In silico study. In *Tissue Engineering and Regenerative Medicine* (pp. 246–260).
2. Sahota, S., S., Singh, J., Kumar, P., Suresh, S., & Pandey, K. M. (2017). Nano devices for contaminant detection. In *Nanotechnology Applications in Food* (pp. 335–344).

### Presentations and Conferences

#### A. International

1. Paper titled “Genomes to Hits in Silico: A Case Study of Chikungunya at Nucleic Acids in Disease & Disorder”, December 7th to 9th, 2011, Kusuma School of Biological Sciences, IIT Delhi
2. Paper titled “In Silico Approach for Drug Target Identification Using Gene Networks” presented at Albany 11, during May 17th-23rd, 2011 at Albany, New York.
3. Paper titled "Influence of Sustainable Agricultural Practices on Agronomical Properties of Vertisol Soil for Soybean Wheat Cropping Sequence in Central India" accepted for oral Paper titled Computational Approach to Construct a Comprehensive Pathway of an Autoimmune Depigmenting Disorder Vitiligo presented at the 4th Annual Meeting of Asian Society of Pigment Cell Research to be held during June 12th 14th, 2010 at Guangzhou, China.
4. Presented a paper titled Impact of Agricultural Practices for Carbon Sequestration on Chemical Properties of Vertisol Soil in Central India in an International Congress of Chemistry and Environment (ICCE-2009) at Ubon Ratchathani, Thailand, held during 21-23 Jan-2010.
5. Presented a paper titled “Effect of Agricultural Practice for Carbon Sequestration on Biological Properties of Vertisol Soil” in the International Society for Biotechnology Conference, Sikkim (2009).
6. Presentation in the International Symposium of Agro- Environ 2008, "Natural Resource Conservation, Use and Sustainability" at Antalya, Turkey, from 28th April to May 1, 2008.
7. Presented a poster on title “An Integrated Molecular Docking, QSAR, and PharmacophoreBased Screening Approach for Phytocompounds Targeting Alzheimer’s Disease” at RABST, MANIT Bhopal, from 13th-14th March- 2026.
8. Presented a poster on title “Comparative Study of Conventional and Modern Extraction Methods for Phytochemical Yield and Efficiency in Selected Medicinal Plants” at RABST, MANIT Bhopal, from 13th-14th March- 2026.
9. Presented a poster on title “Logical modelling of PI3K/AKT/mTOR axis to identify minimal functional signatures for precision stratification” at RABST, MANIT Bhopal, from 13th-14th March- 2026.
10. Presented a poster on title “Molecular Mechanisms Underlying Prion Protein Misfolding, Propagation, and Neurotoxicity” at RABST, MANIT Bhopal, from 13th-14th March- 2026.

11. Presented a poster on title “Time-dependent alterations of the gut microbiome during treatment of drug-sensitive pulmonary tuberculosis: A systematic review and meta-analysis” at IABSCON 2026, Indian Association of Biomedical Scientists on 25 March 2026.

## **B. National**

1. Sangeet, S., Khan, A., Prabha, S., & Pandey, K. M. (2022). Antibacterial Property of Biologically Synthesized Iron Nanoparticles Against *Staphylococcus aureus*. In *Advancement in Materials, Manufacturing and Energy Engineering* (Vol. II: Select Proceedings of ICAMME 2021, pp. 85–96).
2. Presented a paper titled A computational approach to elucidate the patho-mechanism of vitiligo using protein-protein interaction studies in the National Conference on Cellular and Molecular Medicine during February 4-6, 2010, Bhopal
3. Presented a paper titled INSILICO STUDY OF LEUCODERMA (VITILIGO) WITH RESPECT TO TYROSINASE in MedBio-2008 & Third Industry Academia Meet, BMHRC, Bhopal (2008).
4. Presented a paper titled Effect of IPNMs on post-harvest parameters of soybean crop in vertisol in 3rd MP Science Congress 2006, Bhopal (2006).
5. Presented a paper titled Xylanase from newly isolated Extremophiles in the 20th Young Science Congress, Ujjain (2005).
6. Presented a paper titled Isolation and identification of microorganisms for xylanase production for paper industry in National Research Seminar on Microbial world and its application in life (2004).
7. Presented a paper titled "Factors affecting the In Vitro mass multiplication of Medicinal herb *Chlorophytum borivilianum*" in World Herbo Expo 2004 (2004).
8. Presented a Paper titled Exploitation of Extremophiles for the production of xylanase in the 6th Agricultural Science Congress (2003).
9. Presented a paper titled Biotechnological Potential of Thermophilic Enzymes in the First Indian Symposium on Archaeobacteria: Reflections & Prospects (2002).
10. Presented a poster titled Exploitation of Extremophiles for the production of xylanase in the 69th Annual Meeting of the Society of Biological Chemists (India) (2000).

## **Conferences and Workshop Organized**

1. National Workshop on Bioinformatics during March 2011
2. STTPs:
  - “Bioinformatics for Biologists” during March 18-22, 2013
  - eBooks, Online Resources & Knowledge Management during 16th & 17th May 2013
3. National Workshop on “Innovative Soil Testing: The Foundation of Precision Farming” from 24th -25th Feb 2025.
4. HCLTech Grant Symposium, hosted by HCL Foundation in collaboration with CSRBOX and MANIT dated on 7th July 2025
5. International Conference on “Recent Advances in Biomedical Sciences and Theranostics” from 13th-14th March- 2026.

## **No. of Seminar/ Short term Course/ Workshops attended**

1. Seminar : 05
2. Short term Course : 01

3. Workshops attended : 12

## Research Supervision

### A. Ph.D. Supervision

| Sr. No. | Name            | Title                                                                                                                                                        | Year of Award |
|---------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| 1.      | Mohit Jha       | Study of Gene Co-Expression Network Modules Exhibiting Intricate Functional Association with Tuberculosis                                                    | 2017          |
| 2.      | Anvita Gupta    | A Systemic Approach to Unravel the Comprehensive Vitiligo Interactome for Parametric Targetability Evaluation to Identify Potential Therapeutic Drug Targets | 2018          |
| 3.      | Sudha Singh     | Molecular Dynamics Simulations and Computer-Aided Drug Design for Influenza A Virus Neuraminidase Inhibitor                                                  | 2018          |
| 4.      | Anjusha Mune    | Comprehensive Genome-Wide Analysis of the Codon Usage Pattern in Flaviviridae Family                                                                         | 2019          |
| 5.      | Rashi Raizada   | In-silico Comparative Genomic Approach to Identify a Potent Drug-Like Small Molecule Against Chikungunya Virus                                               | 2022          |
| 6.      | Sarit Prabha    | Screening and Characterization of Phyto-Constituents from Medicinal Plants for their Antimicrobial Activity in Special Relevance to Sepsis                   | Submitted     |
| 7.      | Shrutika Sharma | Transcriptomic Studies of <i>Streptococcus oralis</i> Associated with Endocarditis in Response to Phyto-Constituents from Ethno-Medicinal Herbs              | Ongoing       |
| 8.      | Akash Ranga     | Deciphering Gut Microbiota Dynamics Driven by Anti-Tuberculosis Treatment in TB Patients                                                                     | Ongoing       |
| 9.      | Sneha Sahoo     | Development and Characterisation of Nanocomposite-Based Bone Graft for Bone Regeneration in Diabetic Population                                              | Ongoing       |
| 10.     | Neha Malviya    | Design and Development of Natural Bio-composite Scaffolds for Defect-Specific Articular Cartilage Regeneration Using Computational Modelling                 | Ongoing       |

### B. Part Time

| Sr. No. | Name                   | Thesis Topic                 |
|---------|------------------------|------------------------------|
| 1       | Mr Vipin Kumar         | Domain: Bioenergy production |
| 2       | Mr Kunal Mahobiya      | Domain: Epigenomics          |
| 3       | Ms Deeksha Shrivastava | Domain: Onco - Informatics   |

**C. Post-Graduation (M.Tech./ M.Sc.)**

| Sr. No. | Name                 | Thesis Topic                                                                                                                                                                     | Collaboration                     | Year |
|---------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------|
| 1       | Subodh Sudesh Nandes | Finite Element Analysis for Comparison Between Short and Long Intramedullary Nails Used in Intertrochanteric Fracture Treatment                                                  | MANIT, Bhopal                     | 2026 |
| 2       | Monisha Singh        | Finite Element Analysis for Comparison Between Short and Long Intramedullary Nails Used in Intertrochanteric Fracture Treatment                                                  | AIIMS Bhopal                      | 2026 |
| 3       | Shivalika Dubey      | Integrated Construction and Network Analysis of FOXP3 <sup>+</sup> Regulatory T-Cell Associated with Autoimmune Diseases                                                         | IIT Bombay Mumbai                 | 2026 |
| 4       | Shivam Shekhar       | Finite Element Analysis for Comparison Between Short and Long Intramedullary Nails Used in Intertrochanteric Fracture Treatment                                                  | CEO, 30M Genomics Pvt. Ltd.       | 2026 |
| 5       | Aniruddhya Mukherjee | <i>In silico</i> Investigation of Terpenoid Efficacy on Cannabinoid Receptors Using QSAR Models and Fragment-Based Pharmacophore Modelling                                       | Central University of South Bihar | 2023 |
| 6       | Anvesha Dwivedi      | Exploration of Plant Based Bioactive Compounds Against Mrp-14 Receptor of Colorectal Cancer Using In-Silico Approach                                                             | MANIT, Bhopal                     | 2023 |
| 7       | Chanchal Raghuvanshi | Computer Aided Drug Design Approach to Explore the Inhibitory Potential of Bioactive Compound from Indian Medicinal Herbs Against FabK Protein of Streptococcus Pneumoniae       | BU, Bhopal                        | 2023 |
| 8       | Hemlata              | Phytochemical and Antibacterial Analysis of Indian Herbal Plants Leaf Extracts Against Staphylococcus Aureus                                                                     | BU, Bhopal                        | 2023 |
| 9       | Himani Saxena        | Identification of Natural Phytochemicals as Novel Inhibitors of IL-17ra Therapeutics for Autoimmune Diseases an In-Silico Approach                                               | MANIT, Bhopal                     | 2023 |
| 10      | Mahima Chaudhary     | Study of Potential Drug Candidate from Indian Medicinal Plants Against PhzG of Burkholderia Cepacia Through Molecular Docking and Molecular Dynamics Simulations                 | BU, Bhopal                        | 2023 |
| 11      | Priya Singh          | Screening of Phytoconstituents for Their Antimicrobial Activity from Indian Medicinal Plants                                                                                     | Amity University. M.P.            | 2023 |
| 12      | Richa Gour           | <i>In-Silico</i> Approach to Identify Phytocompounds Against B-Lactamase Oxa-10 Protein of Pseudomonas Aeruginosa                                                                | BU, Bhopal                        | 2023 |
| 13      | Risikrishna Das      | Extraction of Natural Dye from Caesalpinia Pulcherrima, Preliminary Characterization and its Application in Fabric Dyeing                                                        | MANIT, Bhopal                     | 2023 |
| 14      | Ritika Singh         | Computer Aided Drug Design Approach to Explore the Inhibitory Potential of Bioactive Compound from Indian Medicinal Herbs Against Murf Synthetase Protein of Streptococcus Mitis | Central University of South Bihar | 2023 |
| 15      | Shreshth Gupta       | Genetic And <i>In-Silico</i> Analysis of Restless Leg Syndrome                                                                                                                   | MANIT, Bhopal                     | 2023 |

| Sr. No. | Name                    | Thesis Topic                                                                                                                                                                           | Collaboration     | Year |
|---------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------|
| 16      | Nabamita Roy            | Molecular Dynamics and Simulations Studies of Binding Interaction Between Therapeutic Antibody and Human Prion Protein                                                                 | MANIT, Bhopal     | 2022 |
| 17      | Riya Sundaray           | Repurposing of Existing Anti-Viral Drugs to Identify Potential Inhibitors of Sars-Cov-2 Through Virtual Screening Approach                                                             | MANIT, Bhopal     | 2022 |
| 18      | Lubna Zeenat            | Drug Screening Against the Virulence System of Extra Cellular Adherence Protein of Staphylococcus Aureus from Indian Medicinal Plants                                                  | MANIT, Bhopal     | 2021 |
| 19      | Dr. Suhita Nadkarni     | Effect Of Stochasticity on Neuronal Signaling                                                                                                                                          | IISER-Pune        | 2020 |
| 20      | Sushmita Das            | Evaluation of Biological Activity of Novel Scaffolds on Different Microorganisms and the Effect of Stress on the Same                                                                  | CSIR - NCL Pune   | 2020 |
| 21      | Caroline celine norbert | Anti-Cancer and Anti-Bacterial Applications of Biosynthesized Silver Nanoparticle                                                                                                      | ACSSIR, Hyderabad | 2020 |
| 22      | Deeksha Singh           | Identification, Characterization and Expression Profiling of Cysteine Proteases in Tomato ( <i>Solanum Lycopersicum L.</i> ) in Response to Tomato Leaf Curl New Delhi Virus (Tolcndv) | NIPGR-New Delhi   | 2019 |
| 23      | Joseph Xavier           | Ribonucleic Acid Isolation on Paper for Point-of-Care Devices                                                                                                                          | CCMB Hyderabad    | 2019 |
| 24      | Parekh Yash Rajendra    | Genetic Analysis for Gene Predisposition of Nr5a1 Gene in Primary Amenorrhea Patients and Assessing the Chromosomal Anomalies in Amniocyte and Lymphocyte Cultures                     | MANIT, Bhopal     | 2019 |
| 25      | Vimal Raj               | Fabrication and Characterization of Silver Sulfadiazine Loaded Nanofiber Scaffold for Wound                                                                                            | IIT Hyderabad     | 2019 |
| 26      | Arushi Nigam            | Biochemical Characterization of Phytochemicals from Edible Plants Showing Inhibitory Properties Against Abscess Formation in Oral Cavity                                               | AIIMS Bhopal      | 2018 |
| 27      | Jibinlal A              | Indigenous Plastic Chip Electrode as Electrochemical Impedance Spectroscopy Platform for The Label-Free Detection of DNA and Protein                                                   | CSIR - Csmcri     | 2018 |
| 28      | Nikhita Mariya John     | Cloning, Expression and Nano Formulation of Recombinant Trail Protein                                                                                                                  | IIT Madras        | 2018 |
| 29      | Sumi Rana               | Characterization Of R Gene(S) Involved in Tolerance Against Tolendv in Tomato ( <i>Solanum Lycopersicum</i> )                                                                          | NIPGR-New Delhi   | 2018 |
| 30      | Tejal Siddhartha Dube   | Development of Biosensor for Blood Electrolyte Quantification                                                                                                                          | IIT Mumbai        | 2018 |
| 31      | Virta Vijayrao Wagde    | Insulin-Like Growth Factor Binding Protein 2 Mediated Signaling in Breast Cancer                                                                                                       | IISC Bangalore    | 2018 |
| 32      | Nishtha Pandey          | Study of Antibacterial Activity of <i>Azadirachta Indica</i> (Neem), <i>Calendula Officinalis</i> (Marigold), <i>Ocimum Tenuiflorum</i> (Tulsi) Against <i>Staphylococcus Aureus</i>   | AIIMS Bhopal      | 2017 |

| Sr. No. | Name                 | Thesis Topic                                                                                                                                                                                      | Collaboration                              | Year |
|---------|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|------|
| 33      | Richa Pahal          | Identification of Antibacterial Activity of <i>Azadirachta Indica</i> , <i>Calendula Officinalis</i> and <i>Ocimum Tenuiflorum</i> for <i>Staphylococcus Epidermidis</i> an Acne Causing Bacteria | AIIMS Bhopal                               | 2017 |
| 34      | Anil Singh           | Effect of Variation in Thickness and Width on the Performance of Leaf Springs used in Heavy Duty Vehicle Applications                                                                             | MANIT, Bhopal                              | 2016 |
| 35      | Archana Singh        | Isolation, Cloning and <i>in silico</i> Analysis of MYB Transcription Factor in <i>Withania Somnifera</i> Dunal                                                                                   | CSIR-Lucknow                               | 2016 |
| 36      | Dharmendra Gupta     | Bio-Oxidation of Lutidine and Separation of Value-Added Products                                                                                                                                  | CSIR - NCL Pune                            | 2016 |
| 37      | Pawan Kumar          | Analysis Of Renal Pathology in Diabetic Rat Model and Wilm's Tumor Protein in Diabetic Patients                                                                                                   | SGPGINS-Lucknow                            | 2016 |
| 38      | Ram Bahadur Singh    | A Computer Based Modeling and Analysis of Leaf Spring Assembly Utilizing Catia and Ansys                                                                                                          | MANIT, Bhopal                              | 2016 |
| 39      | Sakshi Shrivatava    | Application of Microbial Chelators for the Development of Selective and Efficient Chemosensors                                                                                                    | ACSIR, Gujarat                             | 2016 |
| 40      | Tanu Garg            | The Impact of Ace I/D Polymorphism on Susceptibility to Breast Cancer Among North Indian Population                                                                                               | IIT Kanpur                                 | 2016 |
| 41      | Abhishek Sharma      | Comparative Characterization and Strength Analysis of Titanium Based Copper and Titanium Based Silver Foams                                                                                       | CSIR-AMPRI                                 | 2015 |
| 42      | Anil Kumar Patidar   | Design Optimisation of Composite Plate Under Transverse Loading Using Ritz Solution                                                                                                               | MANIT, Bhopal                              | 2015 |
| 43      | Deepali Singh        | Tumor Microenvironment is a Potent Enabler of Malignancy and Metastasis                                                                                                                           | National Institute of Immunology New Delhi | 2015 |
| 44      | Jananee Jaishankar   | Structural And Functional Characterization of Heat Shock Factor and Heat Shock Protein Superfamilies in Foxtail Millet ( <i>Setaria Italica L</i> )                                               | MANIT, Bhopal                              | 2015 |
| 45      | Meenupriya Kontu     | Comparative Genomics Studies to Find the Evolution of Viruses of Flaviviridae Family                                                                                                              | MANIT, Bhopal                              | 2015 |
| 46      | Neeraj Kumar Pathak  | Aerodynamic & Structural Analysis of Ceiling Fan Blade                                                                                                                                            | MANIT, Bhopal                              | 2015 |
| 47      | Prateek Kumar Pandey | Effect of Aging on Slurry Erosive Wear Behaviour of Adc12 Alloy and Adc12-Fly Ash Particulate Composite                                                                                           | MANIT, Bhopal                              | 2015 |
| 48      | Preeti Yadav         | Identification of Novel Protein Drug Targets and Biomarkers Utilising Protein-Protein Interaction Network for Vitiligo                                                                            | Banasthali Vidyapeeth                      | 2015 |
| 49      | Saumya Jaiswal       | Characterization of N-Acetylglucosamine Repressible Transcription Factor in <i>Candida Albicans</i>                                                                                               | NIPGR-New Delhi                            | 2015 |
| 50      | Shalini Prajapati    | <i>In Silico</i> Development of Drug Molecules Against Spike Protein of Sars-Cov-2                                                                                                                | MANIT, Bhopal                              | 2015 |

| Sr. No. | Name                     | Thesis Topic                                                                                                                                                  | Collaboration                         | Year |
|---------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|------|
| 51      | Shivali                  | Bio-Methane Production from Water Hyacinth ( <i>Eichhornia Crassipes</i> ) by Anaerobic Digestion Process Via Enhanced Pretreatment Technology                | MANIT, Bhopal                         | 2015 |
| 52      | Sumit Kumar Tiwari       | Effect of Aging on Mechanical Behavior of Adc12-Fly Ash Particulate Composite                                                                                 | MANIT, Bhopal                         | 2015 |
| 53      | Y.Ragini                 | Understanding the Possible Role of Trap-1 in Mitochondrial Dynamics                                                                                           | CCMB Hyderabad                        | 2015 |
| 54      | Chiranjeevi Kollati      | The Handwritten Note in the Image Is Written Upside Down Relative to the Printed Document                                                                     | CSIR-IICT Hyderabad                   | 2014 |
| 55      | Dipika Singh             | A Study on the Establishment of Symbiotic and Endophytic Association of <i>Cowpea Bradyrhizobium</i> Strains Nodulating Pigeon Pea ( <i>Cajanus Cajan L</i> ) | BHU                                   | 2014 |
| 56      | Himanshu Shekhar         | Analysis Of Automobile Valves Used in LPG Run Engines for Passenger Cars                                                                                      | MANIT, Bhopal                         | 2014 |
| 57      | Jitendra Pratap Singh    | Arbidol Analogs Based Drug Discovery for Hemagglutinin Protein of Influenza Virus                                                                             | Awadhesh Pratap Singh University Rewa | 2014 |
| 58      | Kamini Khatak            | Studies on Production of Different Developmental Stages of Parthenogenetic Buffalo Embryo                                                                     | ICAR Karnal                           | 2014 |
| 59      | Nikita Jain              | Process Development for Purification of Therapeutic Recombinant Protein                                                                                       | Intas Pharmaceuticals, Ahmedabad      | 2014 |
| 60      | Rabindra Kumar           | Search for Candidate Gene for Enhancing Heat Tolerance in Plants                                                                                              | University of Delhi                   | 2014 |
| 61      | Rajesh Singh Jataw       | Wear Behavior and Temperature Induced Wear Analysis of I.C. Engine Valve                                                                                      | MANIT, Bhopal                         | 2014 |
| 62      | Sagar Jaiswal            | Comparative Geographic Genomic Study of Hepatitis B Virus for Asian Countries                                                                                 | Awadhesh Pratap Singh University Rewa | 2014 |
| 63      | Trishna Anand            | IgE Mediated Signaling Mechanisms in RBL 2h3 Cells and PCR Mediated Site Directed Mutagenesis of Human Type II Pi4kinase Beta Cloned in pGEX 4t Vector        | IIT Bombay                            | 2014 |
| 64      | Virendra Pratap Singh    | Experimental Analysis into Causes and Modes of Failure of Valves Used in Petrol Engines                                                                       | MANIT, Bhopal                         | 2014 |
| 65      | Govind Das Tiwari        | Effect of High Temperature on Wear of Internal Combustion Engine Valve                                                                                        | MANIT, Bhopal                         | 2013 |
| 66      | Naresh Kumar Raghuvanshi | Failure Analysis of Internal Combustion Engine Valves due to High Temperature                                                                                 | MANIT, Bhopal                         | 2013 |

| Sr. No. | Name                | Thesis Topic                                                                                                                      | Collaboration | Year |
|---------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------|------|
| 67      | Akshi Tiwari        | A Novel Computational Approach for QSAR Analysis Based on Chemical Similarity of Small Molecules                                  | MANIT, Bhopal | 2012 |
| 68      | Harsh Devang        | <i>In-Silico</i> Bioactivity Analysis of Small Drug-Like Molecules in Reference to Antiviral Drugs                                | MANIT, Bhopal | 2012 |
| 69      | Gyan Prakash Mishra | OpenCL Based Fast Sequence Search for Protein Sequence                                                                            | IIT Allahabad | 2011 |
| 70      | Mohan Ram Bhimcher  | Analysis of Three Pathogenic Bacteria: <i>E. Coli</i> , <i>Salmonella</i> and <i>Shigella</i> Using Comparative Genomics Approach | BISRSC-Jaipur | 2011 |
| 71      | Pankaj Kumar Singh  | Structural Modeling of Human Tyrosinase Protein Using Computational Methods                                                       | MANIT, Bhopal | 2011 |
| 72      | Ramdev              | Study Of Dengue Virus (Type 1, 2, 3 & 4) Through Comparative Genomics Approach                                                    | BISRSC-Jaipur | 2011 |

#### D. Graduation (B.Sc./ B.Tech.)

| Sr.No. | Name                  | Thesis Topic                                                                                                                                                     | Collaboration          | Year |
|--------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------|
| 1      | Bhavika Gangajaliwale | Computational Analysis and Structural Modelling of Glut 2 Protein Using Bioinformatics Tools                                                                     | Amity University, M.P. | 2026 |
| 2      | Khushi Jain           | Transcriptomic Analysis of Adipose Tissue Reveals Differential Gene Expression in Type 2 Diabetes                                                                | Amity University, M.P. | 2026 |
| 3      | Varun Maheshwari      | Differential Gene Expression in Type 2 Diabetes Islets                                                                                                           | Amity University, M.P. | 2026 |
| 4      | Ayush Dubey           | Weighted Gene Co-expression Network Analysis of Gene Module for Type II Diabetes                                                                                 | Amity University, M.P. | 2026 |
| 5      | Karnika Tiwari        | Quality Control: Normalization And Quality Control of Microarray Dataset of Pancreatic Tissue in Type II Diabetes Mellitus                                       | Amity University, M.P. | 2026 |
| 6      | Md Aquib              | Analysis of Biological Processes, Cellular Components, And Molecular Functions of Gene Modules in Type 2 Diabetes Using Gene Ontology Enrichment Analysis        | Amity University, M.P. | 2026 |
| 7      | Tiya Jain             | Differential Gene Expression in Type 2 Diabetes Islets                                                                                                           | Amity University, M.P. | 2026 |
| 8      | Vaishnavi Bhardwaj    | Bioinformatics Identification of Candidate Biomarkers Associated with Type 2 Diabetes Mellitus Using Gene Expression and Functional Enrichment Analysis          | Amity University, M.P. | 2026 |
| 9      | Yana Soni             | Identification of Key Gene Co-Expression Modules Associated with Type 2 Diabetes Mellitus Using WGCNA                                                            | Amity University, M.P. | 2026 |
| 10     | Aamna Khan            | Molecular Phylogeny and Evolutionary Relationships of The Genus <i>Aedes</i> (Dipteria: Culicidae): A Multigene Approach Using Mitochondrial and Nuclear Markers | IEHE, Bhopal           | 2025 |

|    |                     |                                                                                                                                                                                                            |                        |      |
|----|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------|
| 11 | Aamna Khan          | Viroinformatic Approaches to Identify the Inhibitory Potential of Synthetic and Plant-Based Compounds for Nucleocapsid Protein of Hantavirus                                                               | IEHE, Bhopal           | 2025 |
| 12 | Aayushi Pankar      | Molecular Phylogeny and Evolutionary Relationships of Some Taxa of the Genus <i>Colletotrichum</i> Based on Glycosyl Hydrolase Protein Sequences                                                           | IEHE, Bhopal           | 2025 |
| 13 | Aikel Indurkha      | Molecular Docking-Based Identification of Potential Inhibitors of Onco-Proteins Kras G12d And G12v For Mapk/Erk Pathway Blockage in PDAC                                                                   | IEHE, Bhopal           | 2025 |
| 14 | Aikel Indurkha      | Phylogenomics of <i>Mycobacterium</i> : Insights from Housekeeping Genes and 16s rRNA-Based Analysis                                                                                                       | IEHE, Bhopal           | 2025 |
| 15 | Amaan Khan          | Identification of Potential Inhibitors for Jak Signaling Molecules for Vitiligo Using Computer Aided Drug Designing Approaches                                                                             | IEHE, Bhopal           | 2025 |
| 16 | Amaan Khan          | Phylogenetic Analysis of Some Taxa of <i>Streptomyces Spp.</i> or the Basis of Antibiotic Biosynthesis Gene <i>Gyrβ</i> , <i>RecA</i> , <i>Rpoβ</i> and 16s rRNA Genes to Infer Phylogenetic Relationships | IEHE, Bhopal           | 2025 |
| 17 | Kratika Bhadoria    | Protein - Protein Interactions in the Molecular Pathogenesis of Human Neurodegenerative Disorders                                                                                                          | Amity University, M.P. | 2025 |
| 18 | Laiba Yusuf         | Molecular Phylogeny and Evolutionary Relationships of Selected Plasmodium Taxa Using Mitochondrial (Cox1, Cytb) And Nuclear (Efl-A, 18s rRNA) Markers                                                      | IEHE, Bhopal           | 2025 |
| 19 | Mohd. Kaif Alam     | Molecular Phylogeny and Evolutionary Relationships of Some Taxa of the Genus <i>Escherichia</i> : A Multigene Approach Using Housekeeping And 16 S rRNA Genes                                              | IEHE, Bhopal           | 2025 |
| 20 | Mohnish Tiwari      | Correlation Between Diabetes Mellitus and Alzheimer's Disease                                                                                                                                              | Amity University, M.P. | 2025 |
| 21 | Pooja Dhanwani      | Molecular Phylogeny and Evolutionary Relationship of the Genus <i>Saccharomyces</i> : A Multigene Approach Using Nuclear Rpb2, Its, Efl-A And Mitochondrial (Cox2) Markers                                 | IEHE, Bhopal           | 2025 |
| 22 | Precious Ganveer    | Molecular Phylogeny and Evolutionary Diversification of Some Taxa of Legume Family ( <i>Fabaceae</i> ) A Multigene Approach Using Chloroplast and Nuclear Markers                                          | IEHE, Bhopal           | 2025 |
| 23 | Shailvi Shrivastava | Phylogenetic Reconstruction and Evolutionary Insights into Some Taxa of The Genus <i>Bacillus</i> : A Multigene Approach Using Housekeeping And 16s rRNA Genes                                             | IEHE, Bhopal           | 2025 |
| 24 | Shailvi Shrivastava | Computational Approach to Explore Bioprospecting Potential of Compounds as Galectin-3 Inhibitor for Cardiac Fibrosis                                                                                       | IEHE, Bhopal           | 2025 |
| 25 | Shikha Dwivedi      | Analysis and Evolutionary Insights into Some Taxa of the Genus <i>Rhizobium</i> Based on 'Nif' Gene Sequences                                                                                              | IEHE, Bhopal           | 2025 |
| 26 | Shivani Jain        | Phylogenetic Analysis and Evolutionary Insights into Some Taxa of The Genus <i>Pseudomonas</i> : A Multigene Approach Using Housekeeping and 16s rRNA Genes                                                | IEHE, Bhopal           | 2025 |
| 27 | Simmi Singh         | Molecular Phylogeny and Evolutionary Relationships of The Orchid Family ( <i>Orchidaceae</i> ): A Multigene Approach Using Chloroplast and Nuclear Markers                                                 | IEHE, Bhopal           | 2025 |

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|----|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------|
| 28 | Swayam Malviya      | Molecular Phylogeny and Evolutionary Relationships of Some Taxa of the Genus <i>Lactobacillus</i> : Insights from Housekeeping And 16s rRNA Genes                                   | IEHE, Bhopal           | 2025 |
| 29 | Swayam Malviya      | <i>In-Silico</i> Screening of Phytoconstituents from <i>Oroxylum Indicum</i> for Inhibition of 15-Lox-1: Approach Towards Phytotherapy in Osteoarthritis                            | IEHE, Bhopal           | 2025 |
| 30 | Vaishnavi Rambhadia | Molecular Phylogeny and Evolutionary Relationships of Some Taxa of The Genus <i>Drosophila</i> : A Multigene Approach Using Mitochondrial, Nuclear, and Ribosomal Markers           | IEHE, Bhopal           | 2025 |
| 31 | aryan malviya       | Molecular Phylogeny and Evolutionary Dynamics of some Taxa of the Family <i>Poaceae</i> : Insights from Chloroplast and Nuclear Marker Genes                                        | IEHE, Bhopal           | 2025 |
| 32 | Aditi Pandey        | Phylogenetic Study of Structural Proteins of Dengue Virus                                                                                                                           | MANIT, Bhopal          | 2015 |
| 33 | Ayushi Tiwari       | <i>In Silico</i> Studies to Observe and Analyse the Binding Pattern of Monophenolic and Diphenolic Compounds with Normal Tyrosinase to Understand the Mystery of Vitiligo Disorders | Amity University, M.P. | 2015 |
| 34 | Devanshu Umredkar   | Taxonomy of Human Viruses (RNA) Using Bioinformatics.                                                                                                                               | MANIT, Bhopal          | 2012 |
| 35 | Disha Agarwal       | Establishing Structure Activity Relationship of Antiviral Drugs Using Computational Approach                                                                                        | MANIT, Bhopal          | 2012 |
| 36 | Lina Rose Varghese  | ADME Analysis of Antiviral Drugs                                                                                                                                                    | MANIT, Bhopal          | 2012 |
| 37 | Mahima Nayyar       | Structure and Activity Relationship of DNA Intercalating Drugs                                                                                                                      | MANIT, Bhopal          | 2012 |
| 38 | Neha Mishra         | Sequence And Phylogenetic Analysis of a Fused Gene Protein: Aro1 in <i>Saccharomyces Cerevisiae</i>                                                                                 | MANIT, Bhopal          | 2012 |
| 39 | Pankhuri Rajput     | Comparative Genomics Approach to Reveal the Genomics of Hepatitis Virus Subtypes (A, B, C, D, E)                                                                                    | MANIT, Bhopal          | 2012 |
| 40 | Pankhuri Rajput     | Taxonomy of Human Viruses (DNA) Using Bioinformatics                                                                                                                                | MANIT, Bhopal          | 2012 |
| 41 | Pankhuri Wanjari    | <i>In-Silico</i> Docking Study of an Antiviral Active Principal from Medicinal Plants                                                                                               | MANIT, Bhopal          | 2012 |
| 42 | Piyushi Singh       | An <i>In Silico</i> Approach to Analyse the Binding Affinity of Di-Phenolic Compound with Tyrosinase                                                                                | MANIT, Bhopal          | 2012 |
| 43 | Priyanka Gupta      | Geographic Genomics Study of H1n1 Virus                                                                                                                                             | MANIT, Bhopal          | 2012 |
| 44 | Shrutika Barve      | Computational Approach to Organize Data of Viruses Against Human Host                                                                                                               | MANIT, Bhopal          | 2012 |
| 45 | Vartika Agrawal     | Developing Computational Tools for RNA-Seq Analysis of Krab-Znf Proteins                                                                                                            | MANIT, Bhopal          | 2012 |
| 46 | Devendra mamtani    | Database Development for Unique Pathways of <i>Mycobacterium Tuberculosis</i>                                                                                                       | MANIT, Bhopal          | 2011 |
| 47 | Devesh lathi        | A Viral Disease Database                                                                                                                                                            | MANIT, Bhopal          | 2011 |
| 48 | Jyoti Goyal         | Viral Disease Database                                                                                                                                                              | MANIT, Bhopal          | 2011 |

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|----|------------------|-----------------------------------------------------------------------------------------------------|---------------|------|
| 49 | Kamlesh Kushwaha | <i>In silico</i> Evolutionary Analysis for Melanogenesis Pathway                                    | MANIT, Bhopal | 2011 |
| 50 | Neha Mishra      | Sequence and Phylogenetic Analysis of a Fused Gene Protein: Aro1 in <i>Saccharomyces Cerevisiae</i> | MANIT, Bhopal | 2011 |
| 51 | Prachi Saxena    | <i>In-Silico</i> Generation of SNPs Responsible for Lung Cancer Using Monte Carlo Simulation        | MANIT, Bhopal | 2011 |
| 52 | Prakhar Gupta    | <i>In-Silico</i> Gene Functional Annotation Prediction for <i>Caenorhabditis Briggsae</i>           | MANIT, Bhopal | 2011 |
| 53 | Purnima Kirad    | Protein Structure Prediction of the Semaphorin 3D Protein.                                          | MANIT, Bhopal | 2011 |

### Invited Talks & Expert Lectures of Last 3 Years

1. Feb 2026: Delivered a lecture at the 2-day Symposium on *"Various Dimensions of Science Knowledge Tradition in Indian Languages"*, Maharaja Ranjit Singh College, Indore.
2. Nov 2025: Guest Speaker at the *"Workshop on Various PG Activities and Presentation Skills"*, Pt. Khushilal Sharma Govt. Ayurveda College, Bhopal.
3. Mar 2025: Guest Speaker at the State-Level Workshop on *"Advanced Instrumentation on AAS and HPLC"*, Institute for Excellence in Higher Education (IEHE), Bhopal.
4. Jan 2025: Delivered an invited lecture at the National Seminar on *"Recent Advances in Ayurveda Pharmacotherapeutics"*, Pt. Khushilal Sharma Govt. Ayurveda College, Bhopal.
5. Dec 2024: Delivered an invited lecture and hands-on session on *"Basics of Bioinformatics"*, BU, Bhopal.
6. Nov 2024: Delivered lectures on *"Introduction to Bioinformatics & Biological Databases"* and *"Biological Sequence Analysis: Pairwise & Multiple Sequence Alignment"*, MVM College, Bhopal.
7. Mar 2024: Delivered an invited lecture on *"Virtual Alchemy: Navigating Drug Discovery with Computer-Aided Design"*, MVM College, Bhopal.

### Administrative & Institutional Responsibilities

1. Jul 2026: Nodal Officer for Admission-related works for the Joint Ph.D. Program, MANIT Bhopal & AIIMS Bhopal.
2. Dec 2025: Committee Member, Global Alumni Meet 2025, MANIT Bhopal.
3. Jun – Jul 2025: Expert Committee Member & Internal Expert for the selection of Assistant Professors and Temporary Faculty in the Department of Biological Science & Engineering (BSE), MANIT Bhopal.
4. Apr 2025: Coordinator/In-charge for the preparation of the MANIT Yearly Report (2024–2025).
5. Jan 2024 – Present: Appointed as Associate Dean (International & Institutional Relations - ID & IR), MANIT Bhopal.
6. Jan 2024 & Apr 2024 & Jan 2025: Member of Scrutiny Committees for Faculty Recruitment (Advt. Nos. Rectt/FR/2024/2262, 2263 & Rectt/FR-2/2024/1564), MANIT Bhopal.
7. Aug 2024: Committee Member for Document Verification of Non-Teaching Staff Recruitment (Advt. No. Estt/NFR/2024/2264), MANIT Bhopal.

8. Apr 2024: Coordinator for the establishment of the "*Natural History Education Circle*" Cell, MANIT Bhopal.
9. Apr 2024: Member, Committee for Animal Care Unit establishment, MANIT Bhopal.
10. Apr 2024: Member, Board of Studies (Microbiology), Career College, Bhopal.
11. Jan 2024: Co-supervisor / Co-guide for Ph.D. Scholars, Department of Translational Medicine, AIIMS Bhopal.
12. Nov 2024: Served as Judge / Invited Expert at "*Science Exhibition Expo-2024*" and "*Vigyanathon-2024*", World Way International School, Bhopal.
13. Dec 2023: Event Coordinator, Expert Lecture by Prof. Mats Hansson (Lund University, Sweden), MANIT Bhopal.

#### **Member of the Editorial Board of the following journals**

1. Springer Nature: – Editorial & Peer-Review Contributor
2. National Journal of Computational Biology (STM Journals) – Editorial Board Member / Editor
3. International Research Journal of Biotechnology – Editorial Board Member
4. IASET (International Academy of Science, Engineering and Technology) – Editorial Board Member
5. International Journal of Biology, Pharmacy and Allied Sciences (IJBPAS) – Editorial Board Member
6. International Journal of Scientific & Engineering Research (IJSER) – Editorial Board Member
7. International Journal of Advanced Scientific Technologies, Engineering and Management Sciences (IJASTEMS) – Editorial Board Member

#### **Reviewed manuscripts for the following journals**

1. BMC Microbiology (Springer Nature)
2. Cell Biology and Toxicology (*Springer Nature*)

#### **Membership**

1. Fellow member of the National Society of Life Science.
2. Fellow member of Society of Biotechnology.
3. Fellow member of Society of Chemical and Environment.
4. Fellow member of Society of Applied Life Sciences.
5. Life member of Society of Flora and Fauna.
6. Life member of M.P. Science Congress.
7. Life member of Indian Science Congress.
8. Life member of Red Cross Society.
9. Life member of National Academy of Science.

#### **Key Strengths**

- Planning and execution of research projects.
- Independent and teamwork.

- Positive and capable of proving myself.
- Good written and spoken communication skills.
- Strong interpersonal skills in dealing with varied staff and local, provincial, national, and international collaborators.

### Language Proficiency

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- English, Hindi

### Personal Details

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Name : Dr. Khushhali M. Pandey  
Father's Name : Shri. B.L. Menaria  
Sex : Female  
Date of Birth : 08 Dec 1975  
Nationality : Indian  
Marital Status : Married  
Permanent Address : Bhopal

**(Khushhali M. Pandey)**